

D, STEADMAN

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/556,178

DATE: 06/29/2001
TIME: 11:07:40

Input Set : N:\Crf3\RULE60\09556178.txt
Output Set: N:\CRF3\06292001\I556178.raw

SEQUENCE LISTING

C--> 3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: Bandman, Olga
6 Lal, Preeti
7 Guegler, Karl J.
8 Shah, Purvi
9 Corley, Neil C.

C--> 11 (ii) TITLE OF INVENTION: VESICLE TRAFFICKING PROTEINS

13 (iii) NUMBER OF SEQUENCES: 9

15 (iv) CORRESPONDENCE ADDRESS:

16 (A) ADDRESSEE: Incyte Pharmaceuticals, Inc.
17 (B) STREET: 3174 Porter Dr.
18 (C) CITY: Palo Alto
19 (D) STATE: CA
20 (E) COUNTRY: USA
21 (F) ZIP: 94304

23 (v) COMPUTER READABLE FORM:

24 (A) MEDIUM TYPE: Diskette
25 (B) COMPUTER: IBM Compatible
26 (C) OPERATING SYSTEM: DOS
27 (D) SOFTWARE: FastSEQ for Windows Version 2.0

29 (vi) CURRENT APPLICATION DATA:

C--> 30 (A) APPLICATION NUMBER: US/09/556,178

C--> 31 (B) FILING DATE: 20-Apr-2000

33 (vii) PRIOR APPLICATION DATA:

34 (A) APPLICATION NUMBER: 08/967,364

35 (B) FILING DATE:

37 (viii) ATTORNEY/AGENT INFORMATION:

38 (A) NAME: Cerrone, Michael C.
39 (B) REGISTRATION NUMBER: 39,132
40 (C) REFERENCE/DOCKET NUMBER: PF-0417 US

42 (ix) TELECOMMUNICATION INFORMATION:

43 (A) TELEPHONE: 650-855-0555

44 (B) TELEFAX: 650-845-4166

47 (2) INFORMATION FOR SEQ ID NO: 1:

49 (i) SEQUENCE CHARACTERISTICS:

50 (A) LENGTH: 570 amino acids

51 (B) TYPE: amino acid

52 (C) STRANDEDNESS: single

53 (D) TOPOLOGY: linear

55 (vii) IMMEDIATE SOURCE:

56 (A) LIBRARY: THPIPEB01

57 (B) CLONE: 75871

62 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

64 Met Asn Val Val Phe Ala Val Lys Gln Tyr Ile Ser Lys Met Ile Glu

65 1 5 10 15

66 Asp Ser Gly Pro Gly Met Lys Val Leu Leu Met Asp Lys Glu Thr Thr

Paper No. 4
DJS 06/29/01

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TIME: 11:07:41

Input Set : N:\Crf3\RULE60\09556178.txt
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67	20	25	30	
68	Gly Ile Val Ser Met Val Tyr Thr Gln Ser Glu Ile Leu Gln Lys Glu			
69	35	40	45	
70	Val Tyr Leu Phe Glu Arg Ile Asp Ser Gln Asn Arg Glu Ile Met Lys			
71	50	55	60	
72	His Leu Lys Ala Ile Cys Phe Leu Arg Pro Thr Lys Glu Asn Val Asp			
73	65	70	75	80
74	Tyr Ile Ile Gln Glu Leu Arg Arg Pro Lys Tyr Thr Ile Tyr Phe Ile			
75	85	90	95	
76	Tyr Phe Ser Asn Val Ile Ser Lys Ser Asp Val Lys Ser Leu Ala Glu			
77	100	105	110	
78	Ala Asp Glu Gln Glu Val Val Ala Glu Val Gln Glu Phe Tyr Gly Asp			
79	115	120	125	
80	Tyr Ile Ala Val Asn Pro His Leu Phe Ser Leu Asn Ile Leu Gly Cys			
81	130	135	140	
82	Cys Gln Gly Arg Asn Trp Asp Pro Ala Gln Leu Ser Arg Thr Thr Gln			
83	145	150	155	160
84	Gly Leu Thr Ala Leu Leu Ser Leu Lys Lys Cys Pro Met Ile Arg			
85	165	170	175	
86	Tyr Gln Leu Ser Ser Glu Ala Ala Lys Arg Leu Ala Glu Cys Val Lys			
87	180	185	190	
88	Gln Val Ile Thr Lys Glu Tyr Glu Leu Phe Glu Phe Arg Arg Thr Glu			
89	195	200	205	
90	Val Pro Pro Leu Leu Leu Ile Leu Asp Arg Cys Asp Asp Ala Ile Thr			
91	210	215	220	
92	Pro Leu Leu Asn Gln Trp Thr Tyr Gln Ala Met Val His Glu Leu Leu			
93	225	230	235	240
94	Gly Ile Asn Asn Asn Arg Ile Asp Leu Ser Arg Val Pro Gly Ile Ser			
95	245	250	255	
96	Lys Asp Leu Arg Glu Val Val Leu Ser Ala Glu Asn Asp Glu Phe Tyr			
97	260	265	270	
98	Ala Asn Asn Met Tyr Leu Asn Phe Ala Glu Ile Gly Ser Asn Ile Lys			
99	275	280	285	
100	Asn Leu Met Glu Asp Phe Gln Lys Lys Lys Pro Lys Glu Gln Gln Lys			
101	290	295	300	
102	Leu Glu Ser Ile Ala Asp Met Lys Ala Phe Val Glu Asn Tyr Pro Gln			
103	305	310	315	320
104	Phe Lys Lys Met Ser Gly Thr Val Ser Lys His Val Thr Val Val Gly			
105	325	330	335	
106	Glu Leu Ser Arg Leu Val Ser Glu Arg Asn Leu Leu Glu Val Ser Glu			
107	340	345	350	
108	Val Glu Gln Glu Leu Ala Cys Gln Asn Asp His Ser Ser Ala Leu Gln			
109	355	360	365	
110	Asn Ile Lys Arg Leu Leu Gln Asn Pro Lys Val Thr Glu Phe Asp Ala			
111	370	375	380	
112	Ala Arg Leu Val Met Leu Tyr Ala Leu His Tyr Glu Arg His Ser Ser			
113	385	390	395	400
114	Asn Ser Leu Pro Gly Leu Met Met Asp Leu Arg Asn Lys Gly Val Ser			
115	405	410	415	

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116 Glu Lys Tyr Arg Lys Leu Val Ser Ala Val Val Glu Tyr Gly Gly Lys
 117 420 425 430
 118 Arg Val Arg Gly Ser Asp Leu Phe Ser Pro Lys Asp Ala Val Ala Ile
 119 435 440 445
 120 Thr Lys Gln Phe Leu Lys Gly Leu Lys Gly Val Glu Asn Val Tyr Thr
 121 450 455 460
 122 Gln His Gln Pro Phe Leu His Glu Thr Leu Asp His Leu Ile Lys Gly
 123 465 470 475 480
 124 Arg Leu Lys Glu Asn Leu Tyr Pro Tyr Leu Gly Pro Ser Thr Leu Arg
 125 485 490 495
 126 Asp Arg Pro Gln Asp Ile Ile Val Phe Val Ile Gly Gly Ala Thr Tyr
 127 500 505 510
 128 Glu Glu Ala Leu Thr Val Tyr Asn Leu Asn Arg Thr Thr Pro Gly Val
 129 515 520 525
 130 Arg Ile Val Leu Gly Gly Thr Thr Val His Asn Thr Lys Ser Phe Leu
 131 530 535 540
 132 Glu Glu Val Leu Ala Ser Gly Leu His Ser Arg Ser Lys Glu Ser Ser
 133 545 550 555 560
 134 Gln Val Thr Ser Arg Ser Ala Ser Arg Arg
 135 565 570
 137 (2) INFORMATION FOR SEQ ID NO: 2:
 139 (i) SEQUENCE CHARACTERISTICS:
 140 (A) LENGTH: 2342 base pairs
 141 (B) TYPE: nucleic acid
 142 (C) STRANDEDNESS: single
 143 (D) TOPOLOGY: linear
 145 (vii) IMMEDIATE SOURCE:
 146 (A) LIBRARY: THPIPEB01
 147 (B) CLONE: 75871
 149 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
 151 GGACCTCGCG TCGGGCCAAC AGACTGCCGG GTTAATTTAG CCAGACACGT GGGCGGGAAAG 60
 152 GGCTGTAGGG TACTTGTCAA TTGCGCCGCCA TGAACGTGGT TTTTGCTGTG AAGCAGTACA 120
 153 TTTCCAAAAT GATAGAGGAC AGCGGGCCTG GTATGAAAGT ACTTCTCATG GATAAAGAGA 180
 154 CGACTGGCAT AGTGAGTATG GTATACACAC AATCGGAGAT TCTACAGAAG GAAGTGTACC 240
 155 TCTTTGAACG CATCGATTCT CAAAATCGAG AGATCATGAA ACACCTGAAG GCAATTGTT 300
 156 TTCTTCGACC TACAAAGGAG AATGTGGATT ATATTATTCA GGAGCTCCGA AGACCCAAAT 360
 157 ACACTATATA TTTCATTATTT TTCAGTAATG TGATCAGCAA GAGTGACGTG AAGTCATTGG 420
 158 CTGAAGCTGA TGAACAGGAA GTTGTGGCTG AGGTTCAAGGA ATTTTATGGT GATTACATTG 480
 159 CTGTGAACCC ACATTGTGTT TCCCTCAATA TTTTGGGTTG CTGCCAGGGT CGAAATTGGG 540
 160 ATCCAGCCCA GCTATCTAGA ACAACTCAAG GGCTTACAGC TCTCCTTTA TCTCTGAAGA 600
 161 AGTGTCCCAT GATTCTGTT CAGCTCTCAT CAGAGGCAGC AAAGAGACTT GCAGAGTGC 660
 162 TTAAGCAAGT GATAACTAAA GAATATGAAC TGTTTGAATT CCGTCGGACA GAGGTTCC 720
 163 CATTGCTCCT TATTTTAGAT CGCTGTGATG ATGCCATCAC CCCATTGCTA AACCAAGTGG 780
 164 CATATCAGGC CATGGTCCAC GAACTACTAG GCATAAACAA CAATCGGATT GATCTTTCCA 840
 165 GAGTGCCGGG AATCAGTAAA GACTTAAGAG AAGTGGCCT ATCTGCTGAA AATGATGAAT 900
 166 TCTATGCTAA TAATATGTAC CTGAACCTTG CTGAGATTGG TAGCAATATA AAGAATCTCA 960
 167 TGGAAAGATTT TCAGAAGAAG AAACCAAAAG AACAGAAAA ACTAGAATCA ATAGCAGAC 1020
 168 TGAAGGCAGTT TGTTGAGAAT TATCCACAGT TCAAGAAAAT GTCTGGGACT GTTTCAAAGC 1080
 169 ATGTGACAGT GGTTGGAGAA CTGTCTCGAT TGGTCAGTGA ACGGAATCTG CTGGAGGTTT 1140

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170	CAGAGGTTGA	GCAAGAACTG	GCCTGTCAAA	ATGACCATTG	TAGTGCTCTC	CAGAATATAA	1200
171	AAAGGCTTCT	GCAGAACCCC	AAAGTGACAG	AGTTTGATGC	TGCCCGCCTG	GTGATGCTT	1260
172	ATGCTTACA	TTATGAGCGA	CACAGCAGCA	ATAGCCTGCC	AGGACTAATG	ATGGACCTCA	1320
173	GGAATAAAGG	TGTTTCTGAG	AAGTATCGAA	AGCTCGTGTG	TGCAGTTGTT	GAATATGGTG	1380
174	GTAAACGAGT	CAGAGGAAGT	GACCTCTTCA	GCCCCAAAGA	TGCTGTGGCT	ATCACCAAAC	1440
175	AATTCCCTCAA	AGGACTGAAG	GGAGTAGAAA	ATGTATATAC	ACAGCATCAA	CCTTCCTTAC	1500
176	ATGAAACCCCT	GGATCATCTC	ATCAAAGGAA	GGCTTAAGGA	AAACCTATAT	CCTTATTTAG	1560
177	GCCCCAGCAC	ACTCAGAGAC	AGACCTCAGG	ATATCATTGT	GTTTGTAAATT	GGAGGGAGCCA	1620
178	CCTATGAAGA	GGCTCTAACAA	GTTCATAACC	TGAACCGCAC	CACTCCTGGA	GTGAGGATTG	1680
179	TCCTGGGAGG	CACCACAGTG	CACAACACGA	AAAGTTTCTC	AGAGGAAGTT	CTGGCTTCTG	1740
180	GACTGCACAG	CCGAAGCAAG	GAGAGCTCTC	AAGTCACATC	AAGGTCAAGCG	AGCAGAAGAT	1800
181	GAAACGGTGG	TTGGGGGAAG	GGCACAGCTT	CCTCTCTTGT	CCCCACTACA	GGTTTCCCT	1860
182	ACTAAACAAA	GGTGGTGGAG	AGCAGCTTG	GGTCTGTGC	TGGTTGTTAG	AACTCATCTC	1920
183	CAGGTAGCCC	ACGGATACGT	GGTGGCACA	GACACAAGAC	TCCCAGAGTT	GTCCCTAACAA	1980
184	TAAGTCTGAG	CCCATCTCAA	CCCACTTTTC	TCCGGTAGTC	TTTATGTATC	TGTTAGCACA	2040
185	ATCACTTCAG	TTACTGATGA	ATTTGTTGG	GATCTGACTT	GGGGAAAGGG	TTATCAGAGC	2100
186	CTAGAGGGC	TTAAAAAGTA	ATCATTGAT	GTACATACCA	CACTCCTTGG	CTTCCTTCT	2160
187	CTTCCCTTAA	CCCTTCTGC	TTTCATTAA	CCACATTCT	GCACAACCTCA	TTTCTGAAAA	2220
188	CCTACCATGT	TTCTTACAG	AGCCATCCAA	AAATTTTTG	TCCCTACATA	GCAATTTCT	2280
189	GTGGCACTGA	GAAACCATGT	ATGACCACAA	AAAAATCCA	TTTGTGAAA	GGAAAAAA	2340
190	AA						2342

192 (2) INFORMATION FOR SEQ ID NO: 3:

194 (i) SEQUENCE CHARACTERISTICS:
195 (A) LENGTH: 194 amino acids
196 (B) TYPE: amino acid
197 (C) STRANDEDNESS: single
198 (D) TOPOLOGY: linear

200 (vii) IMMEDIATE SOURCE:

201 (A) LIBRARY: 2056691
202 (B) CLONE: BEP1NOT01

204 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

206	Met	Lys	Ile	Trp	Thr	Ser	Glu	His	Val	Phe	Asp	His	Pro	Trp	Glu	Thr
207	1				5				10					15		
208	Val	Thr	Thr	Ala	Ala	Met	Gln	Lys	Tyr	Pro	Asn	Pro	Met	Asn	Pro	Ser
209						20			25					30		
210	Val	Val	Gly	Val	Asp	Val	Leu	Asp	Arg	His	Ile	Asp	Pro	Ser	Gly	Lys
211						35			40					45		
212	Leu	His	Ser	His	Arg	Leu	Leu	Ser	Thr	Glu	Trp	Gly	Leu	Pro	Ser	Ile
213						50			55					60		
214	Val	Lys	Ser	Leu	Ile	Gly	Ala	Ala	Arg	Thr	Lys	Thr	Tyr	Val	Gln	Glu
215						65			70					75		80
216	His	Ser	Val	Val	Asp	Pro	Val	Glu	Lys	Thr	Met	Glu	Leu	Lys	Ser	Thr
217						85			90					95		
218	Asn	Ile	Ser	Phe	Thr	Asn	Met	Val	Ser	Val	Asp	Glu	Arg	Leu	Ile	Tyr
219						100			105					110		
220	Lys	Pro	His	Pro	Gln	Asp	Pro	Glu	Lys	Thr	Val	Leu	Thr	Gln	Glu	Ala
221						115			120					125		
222	Ile	Ile	Thr	Val	Lys	Gly	Val	Ser	Leu	Ser	Ser	Tyr	Leu	Glu	Gly	Leu
223						130			135					140		

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224 Met Ala Ser Thr Ile Ser Ser Asn Ala Ser Lys Gly Arg Glu Ala Met
 225 145 150 155 160
 226 Glu Trp Val Ile His Lys Leu Asn Ala Glu Ile Glu Glu Leu Thr Ala
 227 165 170 175
 228 Ser Ala Arg Gly Thr Ile Arg Thr Pro Met Ala Ala Ala Ala Phe Ala
 229 180 185 190
 230 Glu Lys

233 (2) INFORMATION FOR SEQ ID NO: 4:

235 (i) SEQUENCE CHARACTERISTICS:
 236 (A) LENGTH: 836 base pairs
 237 (B) TYPE: nucleic acid
 238 (C) STRANDEDNESS: single
 239 (D) TOPOLOGY: linear

241 (vii) IMMEDIATE SOURCE:

242 (A) LIBRARY: 2056691
 243 (B) CLONE: BEP1NOT01

245 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

247 GAGCGGGGCA	GGGGCAGGTG	TAGCCTCTGT	GCCTCGTTGT	CCCCTGGCGC	TACCCGGACA	60
248 TCTCTCAGGG	TGCCGGCACC	ATGAAGATCT	GGACTTCGGA	GCACGTCCTT	GACCACCGT	120
249 GGGAAACTGT	TACAACAGCT	GCAATGCAGA	AATAACCCAAA	CCCTATGAAC	CCAAGTGTGG	180
250 TTGGAGTTGA	TGTGTTGGAC	AGACATATAG	ATCCCTCTGG	AAAGTTGCAC	AGCCACAGAC	240
251 TTCTCAGCAC	AGAGTGGGGA	CTGCCTTCCA	TTGTGAAGTC	TCTTATTGGT	GCAGCAAGAA	300
252 CGAAAACATA	TGTGCAAGAA	CATTCTGTAG	TTGATCCTGT	AGAGAAAACA	ATGGAACCTTA	360
253 AATCTACTAA	TATTCATTT	ACAAACATGG	TTTCAGTAGA	TGAGAGACTT	ATATAACAAAC	420
254 CACATCCTCA	GGATCCAGAA	AAAACGTGTT	TGACACAAGA	AGCCATAATT	ACCGTGAAAG	480
255 GAGTTAGCCT	CAGCAGTTAC	CTTGAAGGAC	TGATGGCAAG	TACGATATCC	TCAAATGCTA	540
256 GTAAAGGCCG	AGAAGCAATG	GAATGGTAA	TACATAAATT	AAATGCTGAG	ATTGAAGAAC	600
257 TGACAGCCTC	AGCAAGAGGA	ACCATAAGGA	CTCCAATGGC	AGCAGCAGCG	TTTGCAGAGA	660
258 AGTGTACGTG	ACAGTTGGTA	GACAACATCG	GGTACTCCAG	GTCTCTCCAA	ACTGACTATA	720
259 TATTTATTTG	TTATTTAAA	AATACAACTA	TATTTGGGT	AGTTTTTTT	TTTTTTTTT	780
260 TTGATAAGTT	GGTGTAAAGGC	TATGTGACTG	ATCAAAACAG	ATGCAGGGCC	TCTAAA	836

262 (2) INFORMATION FOR SEQ ID NO: 5:

264 (i) SEQUENCE CHARACTERISTICS:
 265 (A) LENGTH: 177 amino acids
 266 (B) TYPE: amino acid
 267 (C) STRANDEDNESS: single
 268 (D) TOPOLOGY: linear

270 (vii) IMMEDIATE SOURCE:

271 (A) LIBRARY: HEAONOT03
 272 (B) CLONE: 3086794

274 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

276 Met	Glu	Ala	Leu	Ile	Leu	Glu	Pro	Ser	Leu	Tyr	Thr	Val	Lys	Ala	Ile
277 1	5				10				15						
278 Leu	Ile	Leu	Asp	Asn	Asp	Gly	Asp	Arg	Leu	Phe	Ala	Lys	Tyr	Tyr	Asp
279	20				25				30						
280 Asp	Thr	Tyr	Pro	Ser	Val	Lys	Glu	Gln	Lys	Ala	Phe	Glu	Lys	Asn	Ile
281	35				40				45						
282 Phe	Asn	Lys	Thr	His	Arg	Thr	Asp	Ser	Glu	Ile	Ala	Leu	Glu	Gly	
283	50				55				60						

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/556,178

DATE: 06/29/2001

TIME: 11:07:42

Input Set : N:\Crf3\RULE60\09556178.txt
Output Set: N:\CRF3\06292001\I556178.raw

L:3 M:220 C: Keyword misspelled or invalid format, [(1) GENERAL INFORMATION:]
L:11 M:220 C: Keyword misspelled or invalid format, [(ii) TITLE OF INVENTION:]
L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]